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#12

SEQUENCE LISTING

(1) GENERAL INFORMATION:

- (i) APPLICANT: Nobori, Tsutomu  
Carson, Dennis A.  
Takabayashi, Kenji
- (ii) TITLE OF INVENTION: Method for Detection of the Presence or  
Absence of Methylthioadenosine Phosphorylase (MTase) in a  
Cell Sample by Detection of the Presence or Absence of  
MTase Encoding Nucleic Acid in the Cell Sample
- (iii) NUMBER OF SEQUENCES: 1
- (iv) CORRESPONDENCE ADDRESS:
  - (A) ADDRESSEE: Townsend and Townsend and Crew LLP
  - (B) STREET: Two Embarcadero Center, Eighth Floor
  - (C) CITY: San Francisco
  - (D) STATE: California
  - (E) COUNTRY: USA
  - (F) ZIP: 94111-3834
- (v) COMPUTER READABLE FORM:
  - (A) MEDIUM TYPE: Floppy disk
  - (B) COMPUTER: IBM PC compatible
  - (C) OPERATING SYSTEM: PC-DOS/MS-DOS
  - (D) SOFTWARE: PatentIn Release #1.0, Version #1.30
- (vi) CURRENT APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 09/072,914
  - (B) FILING DATE: 04-MAY-1998
  - (C) CLASSIFICATION:
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/176,855
  - (B) FILING DATE: 29-DEC-1993
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/459,343
  - (B) FILING DATE: 02-JUN-1995
- (vii) PRIOR APPLICATION DATA:
  - (A) APPLICATION NUMBER: US 08/827,342
  - (B) FILING DATE: 26-MAR-1997
- (viii) ATTORNEY/AGENT INFORMATION:
  - (A) NAME: Bastian, Kevin L.
  - (B) REGISTRATION NUMBER: 34,774
  - (C) REFERENCE/DOCKET NUMBER: 023070-103030US
- (ix) TELECOMMUNICATION INFORMATION:
  - (A) TELEPHONE: (415) 576-0200
  - (B) TELEFAX: (415) 576-0300

(2) INFORMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 3083 base pairs
- (B) TYPE: nucleic acid
- (C) STRANDEDNESS: single
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: DNA (genomic)

(ix) FEATURE:

- (A) NAME/KEY: -
- (B) LOCATION: 1..3083
- (D) OTHER INFORMATION: /note= "rat methylthioadenosine phosphorylase (MTase)"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 119..151
- (D) OTHER INFORMATION: /note= "exon 1"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 450..536
- (D) OTHER INFORMATION: /note= "exon 2"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 724..782
- (D) OTHER INFORMATION: /note= "exon 3"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 899..1066
- (D) OTHER INFORMATION: /note= "exon 4"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 1378..1480
- (D) OTHER INFORMATION: /note= "exon 5"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 1764..1953
- (D) OTHER INFORMATION: /note= "exon 6"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 2426..2548
- (D) OTHER INFORMATION: /note= "exon 7"

(ix) FEATURE:

- (A) NAME/KEY: exon
- (B) LOCATION: 2838..2876
- (D) OTHER INFORMATION: /note= "exon 8"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCTGGTCTCG CACTGCTCAC TCCGCGCAG TGAGGTTGGC ACAGCCACCG CTCTGTGGCT

CGCTTGGTTC	CCTTAGTCCC	GAGCGCTCGC	CCACTGCAGA	TTCCTTTCCC	GTGCAGACAT	120
GGCCTCTGGC	ACCACCACTA	CCGCCGTGAA	GGTGAGATGA	GCCCTCCCAG	CCGCAGCGGT	180
TCGCCTGCCG	GATGCCTTCN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	240
NNNNNNNNNN	CCTTCAAATG	TTTGTGTGATT	TTTATGGAAG	GCTTTGAAAT	ATTTGTTGAT	300
TGATGTTTCTAG	TAATTTTCTAG	ATTTCAAAAA	AATAACTAGG	GCTTGGCAGG	AATGGAGAAG	360
AGCATATGAA	TAAATGAATT	TGCTTAGAAT	CTTATTTCTA	ATAAAAATTA	CCAAATACAA	420
TAATCTTATA	TGTCTTTTTT	TGCTCTTAGA	TTGGAATAAT	TGGTGGAAACA	GGCCTGGATG	480
ATCCAGAAAT	TTTAGAAGGA	AGAAGTGAAG	AATATGTGGA	TACTCCATTT	GGCAAGGTTA	540
ATATCCAAC	TGTGGAGACA	TGTTTTNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	600
TTCTCTAAGT	TGTATCCTCA	GACTCTTCAG	ATTCCATGAG	TCCTGTTGTG	GTTGAACAAT	660
TATAATTTAC	ATACCTGTTT	TTTAAATCAC	TGAGTTAAAT	GTCATTTTTT	TCATTGCATG	720
CAGCCATCTG	ATGCCTTAAT	TTTGGGGAAG	ATAAAAAATG	TTGATTGCGT	CCTCCTTGCA	780
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TGAAGGAAGA	GGGCTGTACA	CATGTCATAG	TGACCACAGC	TTGTGGCTCC	TTGAGGGAGG	1020
AGATTCTAGCC	CGGCGATATT	GTCATTATTG	ATCAGTTTAT	TGACAGGTAA	GCAGTCATAC	1080
AAAATGCTTT	AGGCTATTGT	AGCTGGTCAT	TTTCAGCTCA	AATGGACGAC	NNNNNNNNNN	1140
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AGTCTGGAGT	AAAGACCCAA	ATATTGACCT	AGATAAAGTT	GACTCACCAG	CCCTCGGAGG	1320
ATGGAAAGAT	GGCCTTAAAA	TAAACAAAC	AAAAACCTTT	TTTGCTTTAT	TTTGTAGGAC	1380
CACTATGAGA	CCTCAGTCCT	TCTATGATGG	AAGTCATTCT	TGTGCCAGAG	GAGTGTGCCA	1440
TATTCCAATG	GCTGAGCCGT	TTTGCCCCAA	AACGAGAGAG	GTGTGTAGTC	TTTCTGGAAG	1500
GTGTACCAGA	ATAAATCATG	TGGGCTTGGG	GTGGCATCTG	GCATTTGGTT	AATTGGCAGA	1560
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ATTTCTCTGTT	GCTAATAATT	TNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	NNNNNNNNNN	1680
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GCCACTCAAA	GGGGACAATG	GTCACAATCG	AGGGACCTCG	TTTTAGCTCC	CGGGCAGAAA	1860
GCTTCATGTT	CCGCACCTGG	GGGGCGGATG	TTATCAACAT	GACCACAGTT	CCAGAGGTGG	1920

TTCTTGCTAA GGAGGCTGGA ATTTGTTACG CAAGTATCGC CATGGGCACA GATTATGACT	1980
GCTGGAAGGA GCACGAGGAA GCAGTAGGTG GAATTCTTTT CTAAGCACAT ATAGCATGGG	2040
TTTCTGGGTG CCAATAGGGT GTCTTAACTG TTTGTTTCTA TTACGTTAGT TTCAGAAAGT	2100
GCCTTTCTAC AAGGTTTTGA AGTTGTTAAT ATTTTCTGTA GTTCCATTGG AAGGTAAGAA	2160
CAAAGATCAA AAGAAAGAAA GAGACACTTT TACCCAAGGA TCAGTAGTGA AAATAGTACA	2220
TTGTAGGCAT GTAGATGTGT TGAGAATCAT ACTAAGACTT GGGCCTTNNN NNNNNNNNNN	2280
NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	2340
NNNNNNNNNN GAGCTCCGAA AAATGTTTTA TGACTAGCAG TGGAATTTTA AGTTCTAGTA	2400
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TTATGCCAGC CTANNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN NNNNNNNNNN	2700
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GCATGGCTGC CCAGGAGAAA AGAAGACATT CTAATTCCAG TCATTTGGGA ATTCCTGCTT	2940
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CAAAATACAG AAGAAAAGCA AAA	3083